

# KLINGON - PLUS product - NTAS 'chip version'

## Overview

The Klingon - Plus, upgrade is primarily for use with the Coin Controls C220 and C120 coin validators, and allows the £2 coin to correctly register on both A and B channels, using either type validator.

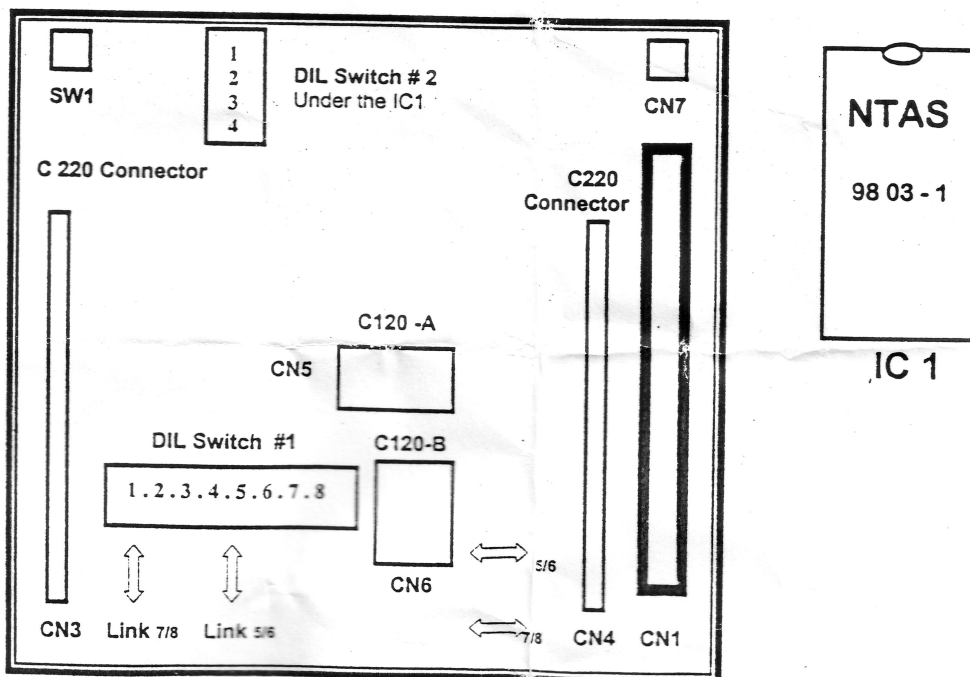
**IMPORTANT:** If the C120 validator is used, it is important that the coin positions 5 and 11 are not configured. For both types of validator the £2 coin should be configured as coin 6.

## Features

- Single and Dual channel modes
- Detection of C220 in binary / parallel mode via switches 7 & 8 on DIL switch #1
- Acceptance of new £2 and 50p coins
- Acceptance of up to 6 different coin currencies
- Switch selection of international currencies
- Switch selection of game and bonus costs
- De-bounce on switch inputs
- Serial output for Dual Display board
- New** • The new £2/- coin will Inhibit, when link 5/6 removed
- The old 50p coin will Inhibit, when link 7/8 removed
- The Brown Out circuitry to prevent spurious credit during power interrupts

The Links 5/6 & 7/8 are located under DIL switch #1 and near CN5

## Connections and Switches



## UK Currency Setting

## Klingon - Plus (-1)

### C220 Parallel Mode 4 Coin Validator

1	2	3	4
£1	50p new	20p	10p

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### C220 Binary Mode Validator

1	2	3	4	5	6	7	8
£1	50p new	20p	10p	Not used	£2	Not used	

### C120 Validator

1	2	3	4	5	6
£1	50p new	20p	10p	Not used	£2

### DIL Switch # 2 Settings

Mode	1	2	3	4
Direct Mode or Single Player Mode	OFF	OFF	OFF	OFF
2 Channel Mode or Two Player Mode	OFF	OFF	OFF	ON

### DIL Switch # 1 Settings

Per Game	Bonus	1	2	3	4	5
10p	None	Off	Off	Off	Off	Off
10p	6 for 50p	On	Off	Off	Off	Off
20p	None	Off	On	Off	Off	Off
20p	3 for 50p	On	On	Off	Off	Off
30p	None	Off	Off	On	Off	Off
30p	2 for 50p	On	Off	On	Off	Off
40p	None	Off	On	On	Off	Off
40p	3 for £ 1.00	On	On	On	Off	Off
50p	None	Off	Off	Off	On	Off
50p	5 for £ 2.00	On	Off	Off	On	Off
60p	None	Off	On	Off	On	Off
60p	2 for £ 1.00	On	On	Off	On	Off
80p	None	Off	Off	On	On	Off
80p	3 for £ 2.00	On	Off	On	On	Off
£ 1.00	None	Off	On	On	On	Off
£ 1.00	3 for £ 2.00	On	On	On	On	Off
£ 1.20	None	Off	Off	Off	Off	On
£ 1.50	None	On	Off	Off	Off	On
£ 2.00	None	Off	On	Off	Off	On
£ 2.50	None	On	On	Off	Off	On
£ 3.00	None	Off	Off	On	Off	On
£ 3.50	None	On	Off	On	Off	On
£ 4.00	None	Off	On	On	Off	On
£ 4.50	None	On	On	On	Off	On
£ 5.00	None	Off	Off	Off	On	On
30p (AMLD)	3 for £ 1.00	On	Off	Off	On	On
50p (Std: Play)	3 for £ 1.00	Off	On	Off	On	On
Free Play	Not Applicable	On	On	On	On	On

### DIL Switch # 1 Coin Validator Mode

6	7	8	Mode
N/U	ON	ON	Binary
N/U	OFF	OFF	Parallel

Amusement Machines License  
Duty (AMLD) setting provides  
Three games for £ 1.00 . The  
price of play setting is 30p play.

50p Standard Play, OR three  
games for Each £ 1.00 inserted.